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Docket No.: BGI-130CPRCE
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Markus Pompejus *et al.*

Application No.: 09/604693

Confirmation No.: 4996

Filed: June 27, 2000

Art Unit: 1652

For: *CORYNEBACTERIUM GLUTAMICUM*
GENES ENCODING PROTEINS INVOLVED
IN DNA REPLICATION, PROTEIN
SYNTHESIS. AND PATHOGENESIS

Examiner: R. G. Hutson

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (SIDS)

Dear Sir:

In accordance with 37 CFR 1.97, Applicants hereby make of record the following additional documents. A PTO Form SB/08 and a full copy of each of the documents required under 37 CFR 1.98(a)(2) accompany this statement.

This statement is not to be interpreted as a representation that the cited documents are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any document herein be construed *per se* as a representation that such document is prior art. Moreover, Applicants understand the Examiner will make an independent evaluation of the cited documents.

This Supplemental Information Disclosure Statement is filed more than three months after the U.S. filing date, after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

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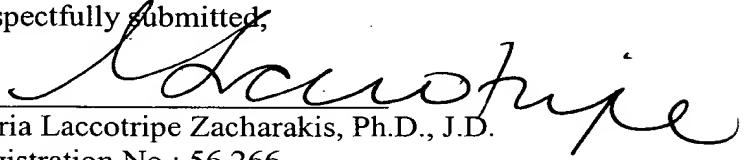
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Dated: August 29, 2006

MLZ/MG/JGS/mch

Respectfully submitted,

By


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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 19

Complete if Known

Application Number	09/604693-Conf. #4996
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	B1	EP-0204326-A2	12-10-1986	Kyowa Hakko Kogyo Co., Ltd.		
	B2	JP-62232392	10-12-1987	Kyowa Hakko Kogyo Co., Ltd.		Abstr.
	B3	JP-62244382	10-24-1987	Ajinomoto Co., Inc.		Abstr.
	B4	EP-0358940-A1	03-21-1990	Degussa Aktiengesellschaft		
	B5	JP-04278088	10-02-1992	Mitsubishi Petrochem Co., Ltd.		Abstr.
	B6	JP-04330284	11-18-1992	Mitsubishi Petrochem Co., Ltd.		Abstr.
	B7	JP-05030977	02-09-1993	Mitsubishi Petrochem Co., Ltd.		Abstr.
	B8	JP-05056782	03-09-1993	Kyowa Hakko Kogyo Co. Ltd.		Abstr.
	B9	JP-05076352	03-30-1993	Ajinomoto Co., Inc.		Abstr.
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	B22	JP-07031478	02-03-1995	Mitsubishi Chem		Abstr.
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	B25	JP-07075578	03-20-1995	Mitsubishi Chem		Abstr.
	B26	JP-07075579	03-20-1995	Mitsubishi Chem		Abstr.
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	B28	JP-09224661	09-02-1997	Mitsubishi Chem		Abstr.

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				Art Unit	1652
				Examiner Name	R. G. Hutson
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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	C1	Ankri, Serge, et al., "Mutations in the <i>Corynebacterium glutamicum</i> Proline Biosynthetic Pathway: a Natural Bypass of the <i>proA</i> Step," <i>Journal of Bacteriology</i> , Vol. 178(15):4412-4419 (1996)		
	C2	Billman-Jacobe, H., "Nucleotide sequence of a <i>recA</i> gene from <i>Corynebacterium glutamicum</i> ," <i>The Journal of Sequencing and Mapping</i> , Vol. 4:403-404 (1994)		
	C3	Bonamy, Celine, et al., "Identification of IS1206, a <i>Corynebacterium glutamicum</i> IS3-related insertion sequence and phylogenetic analysis," <i>Molecular Microbiology</i> , Vol. 14(3):571-581 (1994)		
	C4	Bonnassie, S., et al., "Nucleotide sequence of the <i>dapA</i> gene from <i>Corynebacterium glutamicum</i> ," <i>Nucleic Acids Research</i> , Vol. 18(21):6421 (1990)		
	C5	Börmann, E.R., et al., "Molecular analysis of the <i>Corynebacterium glutamicum</i> <i>gdh</i> gene encoding glutamate dehydrogenase," <i>Molecular Microbiology</i> , Vol. 6(3):317-326 (1992)		
	C6	Chen, Chian-Chi, et al., "The cloning and nucleotide sequence of a <i>Corynebacterium glutamicum</i> 3-deoxy-D-arabinoheptulosonate-7-phosphate synthase gene," <i>FEMS Microbiology Letters</i> , Vol. 107:223-230 (1993)		
	C7	Cianciotto, Nicholas, et al., "DNA sequence homology between attB-related sites of <i>Corynebacterium diphtheriae</i> , <i>Corynebacterium ulcerans</i> , <i>Corynebacterium glutamicum</i> , and the attP site of γ -Corynephage," <i>FEMS Microbiology Letters</i> , Vol. 66:299-302 (1990)		
	C8	Correia, Antonio, et al., "Cloning and characterization of an IS-like element present in the genome of <i>Brevibacterium lactofermentum</i> ATCC 13869," <i>Gene</i> , Vol. 170:91-94 (1996)		
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	C10	Eikmanns, Bernhard J., et al., "Nucleotide sequence, expression and transcriptional analysis of the <i>Corynebacterium glutamicum</i> <i>glcA</i> gene encoding citrate synthase," <i>Microbiology</i> , Vol. 140:1817-1828 (1994)		
	C11	Eikmanns, Bernhard J., "Identification, Sequence Analysis, and Expression of a <i>Corynebacterium glutamicum</i> Gene Cluster Encoding the Three Glycolytic Enzymes Glyceraldehyde-3-Phosphate Dehydrogenase, 3-Phosphoglycerate Kinase, and Triosephosphate Isomerase," <i>Journal of Bacteriology</i> , Vol. 174(19):6076-6086 (1992)		
	C12	Eikmanns, Bernhard J., et al., "Cloning, Sequence Analysis, Expression, and Inactivation of the <i>Corynebacterium glutamicum</i> <i>icd</i> Gene Encoding Isocitrate Dehydrogenase and Biochemical Characterization of the Enzyme," <i>Journal of Bacteriology</i> , Vol. 177(3):774-782 (1995)		
	C13	Eikmanns, Bernhard J., et al., "The phosphoenolpyruvate carboxylase gene of <i>Corynebacterium glutamicum</i> : Molecular cloning, nucleotide sequence, and expression," <i>Mol. Gen. Genet.</i> , Vol. 218:330-339 (1989)		
	C14	Fitzpatrick, R., et al., "Construction and characterization of <i>recA</i> mutant strains of <i>Corynebacterium glutamicum</i> and <i>Brevibacterium lactofermentum</i> ," <i>Appl. Microbiol. Biotechnol.</i> , Vol. 42:575-580 (1994)		
	C15	Follettie, Max T., et al., "Molecular Cloning and Nucleotide Sequence of the <i>Corynebacterium glutamicum</i> <i>pheA</i> Gene," <i>Journal of Bacteriology</i> , Vol. 167(2):695-702 (1986)		
	C16	Fouet, Agnes, et al., " <i>Bacillus subtilis</i> sucrose-specific enzyme II of the phosphotransferase system: Expression in <i>Escherichia coli</i> and homology to enzymes II from enteric bacteria," <i>Proc. Natl. Acad. Sci.</i> , Vol. 84:8773-8777 (1987)		

Examiner Signature		Date Considered	
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				First Named Inventor	Markus POMPEJUS
				Art Unit	1652
				Examiner Name	R. G. Hutson
Sheet	3	of	19	Attorney Docket Number	BGI-130CPRCE

C17	Han, K.-S., et al., "The molecular structure of the <i>Corynebacterium glutamicum</i> threonine synthase gene," <i>Molecular Microbiology</i> , Vol. 4(10):1693-1702 (1990)
C18	Heery, D.M., et al., "Nucleotide sequence of the <i>Corynebacterium glutamicum</i> <i>trpE</i> gene," <i>Nucleic Acids Research</i> , Vol. 18(23):7138 (1990)
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C20	Heery, David M., et al., "A Sequence from a Tryptophan-Hyperproducing Strain of <i>Corynebacterium glutamicum</i> Encoding Resistance to 5-Methyltryptophan," <i>Biochemical and Biophysical Research Communications</i> , Vol. 201(3):1255-1262 (1994)
C21	Honrubia, M.P., et al., "Identification, characterization, and chromosomal organization of the <i>ftsZ</i> gene from <i>Brevibacterium lactofermentum</i> ," <i>Mol. Gen. Genet.</i> , Vol. 259:97-104 (1998)
C22	Ishino, Shuichi, et al., "Nucleotide sequence of the meso-diaminopimelate D-dehydrogenase gene from <i>Corynebacterium glutamicum</i> ," <i>Nucleic Acids Research</i> , Vol. 15(9):3917 (1987)
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C24	Jäger, Wolfgang, et al., "A <i>Corynebacterium glutamicum</i> gene encoding a two-domain protein similar to biotin carboxylases and biotin-carboxyl-carrier proteins," <i>Arch. Microbiol.</i> , Vol. 166:76-82 (1996)
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C26	Jakoby, Marc, et al., "Nitrogen regulation in <i>Corynebacterium glutamicum</i> : isolation of genes involved and biochemical characterization of corresponding proteins," <i>FEMS Microbiology Letters</i> , Vol. 173:303-310 (1999)
C27	Jetten, Mike S., et al., "Structural and Functional Analysis of Pyruvate Kinase from <i>Corynebacterium glutamicum</i> ," <i>Applied and Environmental Microbiology</i> , Vol. 60(7):2501-2507 (1994)
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C29	Kalinowski, J., et al., "Genetic and biochemical analysis of the aspartokinase from <i>Corynebacterium glutamicum</i> ," <i>Molecular Microbiology</i> , Vol. 5(5):1197-1204 (1991)
C30	Kalinowski, Jörn, et al., "Aspartokinase gene <i>lysCα</i> and <i>lysCβ</i> overlap and are adjacent to the aspartate β -semialdehyde dehydrogenase gene <i>asd</i> in <i>Corynebacterium glutamicum</i> ," <i>Mol. Gen. Genet.</i> , Vol. 224:317-324 (1990)
C31	Keilhauer, Carmen, et al., "Isoleucine Synthesis in <i>Corynebacterium glutamicum</i> : Molecular Analysis of the <i>ilvB-ilvN-ilvC</i> Operon," <i>Journal of Bacteriology</i> , Vol. 175(17):5595-5603 (1993)
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C33	Kobayashi, Miki, et al., "Cloning, Sequencing, and Characterization of the <i>ftsZ</i> Gene from <i>Corynebacterium</i> Bacteria," <i>Biochemical and Biophysical Research Communications</i> , Vol. 236:383-388 (1997)
C34	Kronmeyer, Wolfgang, et al., "Structure of the <i>gluABCD</i> Cluster Encoding the Glutamate Uptake System of <i>Corynebacterium glutamicum</i> ," <i>Journal of Bacteriology</i> , Vol. 177(5):1152-1158 (1995)

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C35	Lee, Heung-Shick, et al., "Molecular Characterization of AceB, a Gene Encoding Malate Synthase in <i>Corynebacterium glutamicum</i> ," <i>Journal of Microbiology and Biotechnology</i> , Vol. 4(4):256-263 (1994)
C36	Le Marrec, Claire, et al., "Genetic Characterization of Site-Specific Integration Functions of Φ AAU2 Infecting ' <i>Arthrobacter aureus</i> ' C70," <i>Journal of Bacteriology</i> , Vol. 178(7):1996-2004 (1996)
C37	Lepiniec, Loïc, et al., "Sorghum phosphoenolpyruvate carboxylase gene family: structure, function and molecular evolution," <i>Plant Molecular Biology</i> , Vol. 21:487-502 (1993)
C38	Lichtinger, Thomas, et al., "Biochemical and Biophysical Characterization of the Cell Wall Porin of <i>Corynebacterium glutamicum</i> : The Channel Is Formed by a Low Molecular Mass Polypeptide," <i>Biochemistry</i> , Vol. 37:15024-15032 (1998)
C39	Ludwig, W., et al., "Phylogenetic relationships of <i>Bacteria</i> based on comparative sequence analysis of elongation factor Tu and ATP-synthase β -subunit genes," <i>Antonie van Leeuwenhoek</i> , Vol. 64:285-305 (1993)
C40	Malubres, Marcos, et al., "Analysis said Expression of the <i>thrC</i> Gene of <i>Brevibacterium lactofermentum</i> and Characterization of the Encoded Threonine Synthase," <i>Applied and Environmental Microbiology</i> , Vol. 60(7):2209-2219 (1994)
C41	Marcel, T., et al., "Nucleotide sequence and organization of the upstream region of the <i>Corynebacterium glutamicum</i> <i>lysA</i> gene," <i>Molecular Microbiology</i> , Vol. 4(11):1819-1830 (1990)
C42	Mateos, Luis M., et al., "Nucleotide sequence of the homoserine kinase (<i>thr B</i>) gene of <i>Brevibacterium lactofermentum</i> ," <i>Nucleic Acids Research</i> , Vol. 15(9):3922 (1987)
C43	Mateos, Luis M., et al., "Nucleotide sequence of the homoserine dehydrogenase (<i>thr A</i>) gene of <i>Brevibacterium lactofermentum</i> ," <i>Nucleic Acids Research</i> , Vol. 15(24):10598 (1987)
C44	Matsui, Kazuhiko, et al., "Complete nucleotide and deduced amino acid sequences of the <i>Brevibacterium lactofermentum</i> tryptophan operon," <i>Nucleic Acids Research</i> , Vol. 14(24):10113-10114 (1986)
C45	Möckel, Bettina, et al., "Functional and Structural Analyses of Threonine Dehydratase from <i>Corynebacterium glutamicum</i> ," <i>Journal of Bacteriology</i> , Vol. 174(24):8065-8072 (1992)
C46	Molenaar, Douwe, et al., "Biochemical and genetic characterization of the membrane-associated malate dehydrogenase (acceptor) from <i>Corynebacterium glutamicum</i> ," <i>Eur. J. Biochem.</i> , Vol. 254:395-403 (1998)
C47	Moreau, Sylvia, et al., "Site-specific integration of corynephage Φ 16: construction of an integration vector," <i>Microbiology</i> , Vol. 145:539-548 (1999)
C48	Moreau, Sylvie, et al., "Analysis of the Integration Functions of Φ 304L: An Integrase Module among Corynephages," <i>Virology</i> , Vol. 255:150-159 (1999)
C49	O'Gara, James P., et al., "Mutations in the <i>trpD</i> Gene of <i>Corynebacterium glutamicum</i> Confer 5-Methyltryptophan Resistance by Encoding a Feedback-Resistant Anthranilate Phosphoribosyltransferase," <i>Applied and Environmental Microbiology</i> , Vol. 61(12):4477-4479 (1995)
C50	Oguiza, José A., et al., "A Gene Encoding Arginyl-tRNA Synthetase Is Located in the Upstream Region of the <i>lysA</i> Gene in <i>Brevibacterium lactofermentum</i> : Regulation of <i>argS-lysA</i> Cluster Expression by Arginine," <i>Journal of Bacteriology</i> , Vol. 175(22):7356-7362 (1993)
C51	Oguiza, José A., et al., "Molecular Cloning, DNA Sequence Analysis, and Characterization of the <i>Corynebacterium diphtheriae</i> <i>dtxR</i> Homolog from <i>Brevibacterium lactofermentum</i> ," <i>Journal of Bacteriology</i> , Vol. 177(2):465-467 (1995)
C52	Oguiza, José A., et al., "Multiple Sigma Factor Genes in <i>Brevibacterium lactofermentum</i> : Characterization of <i>sigA</i> and <i>sigB</i> ," <i>Journal of Bacteriology</i> , Vol. 178(2):550-553 (1996)

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C53	Oguiza, José A., et al., "The galE gene encoding the UDP-galactose 4-epimerase of <i>Brevibacterium lactofermentum</i> is coupled transcriptionally to the <i>dmdR</i> gene," <i>Gene</i> , Vol. 177:103-107 (1996)	
C54	O'Regan, Michael, et al., "Cloning and nucleotide sequence of the phosphoenolpyruvate carboxylase-coding gene of <i>Corynebacterium glutamicum</i> ATCC13032," <i>Gene</i> , Vol. 77:237-251 (1989)	
C55	Park, Soo-Dong, et al., "Isolation and Analysis of <i>metA</i> , a Methionine Biosynthetic Gene Encoding Homoserine Acetyltransferase in <i>Corynebacterium glutamicum</i> ," <i>Mol. Cells</i> , Vol. 8(3):286-294 (1998)	
C56	Park, Yong-Ha, et al., "Phylogenetic Analysis of the Coryneform Bacteria by 5S rRNA Sequences," <i>Journal of Bacteriology</i> , Vol. 169(5):1801-1806 (1987)	
C57	Pascual, Cristina, et al., "Phylogenetic Analysis of the Genus <i>Corynebacterium</i> Based on 16S rRNA Gene Sequences," <i>International Journal of Systematic Bacteriology</i> , Vol. 45(4):724-728 (1995)	
C58	Pátek, M., et al., "Analysis of the <i>leuB</i> gene from <i>Corynebacterium glutamicum</i> ," <i>Appl Microbiol Biotechnol.</i> Vol. 50:42-47 (1998)	
C59	Pátek, Miroslav, et al., "Leucine Synthesis in <i>Corynebacterium glutamicum</i> : Enzyme Activities, Structure of <i>leuA</i> , and Effect of <i>leuA</i> Inactivation on Lysine Synthesis," <i>Applied and Environmental Microbiology</i> , Vol. 60(1):133-140 (1994)	
C60	Pátek, Miroslav, et al., "Promoters from <i>Corynebacterium glutamicum</i> : cloning, molecular analysis and search for a consensus motif," <i>Microbiology</i> , Vol. 142:1297-1309 (1996)	
C61	Pátek, M., et al., "Identification and transcriptional analysis of the <i>dapB</i> -ORF2- <i>dapA</i> -ORF4 operon of <i>Corynebacterium glutamicum</i> , encoding two enzymes involved in L-lysine synthesis," <i>Biotechnology Letters</i> , Vol. 19(11):1113-1117 (1997)	
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	C329	GenBank Accession No. Y00546 for Nucleotide sequence and fine structural analysis of the <i>Corynebacterium glutamicum</i> hom-thrB operon, Peoples, O.P. et al, 09/12/93	
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	C350	GenBank Accession No. Z81368, Cole, S.T. et al, "Deciphering the biology of Mycobacterium tuberculosis from the complete genome sequence," <i>Nature</i> , Vol. 393(6685):537-544 (1998), 09/02/02	
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